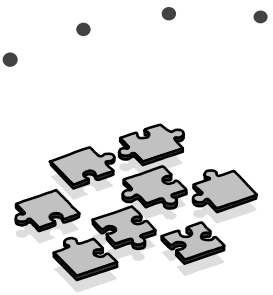# OS/2 TCPIP CONFIGURATION (TCPCFG.EXE)
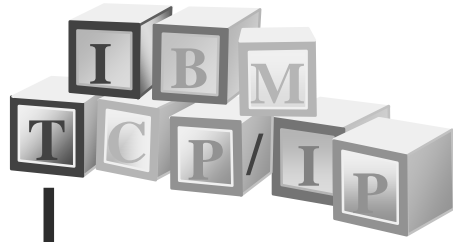
Mike Rutherford

T/L 444-4848

mike @ rtpnotes

mike@raleigh.ibm.com
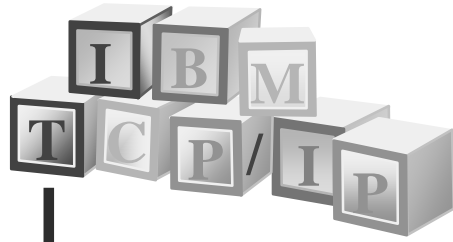
Overview

- Description
  - *f* Provides the ability to configure major components of TCP/IP for OS/2

Overview - Features

- **Network Tab**
  - f\mptn\bin\setup.cmd
  - $f$etc\dhcpcd.cfg
  - fOS/2 System startup folder

- **Routing Tab**
  - f\mptn\bin\setup.cmd

- **Hostnames Tab**
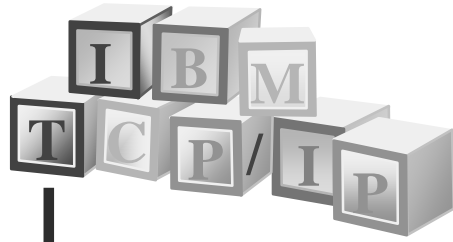 - f\config.sys
  - f\etc\resolv2
  - f\etc\hosts
  - f\config.sys

- **Autostart Tab**
  - f\tcpip\bin\tcpstart.cmd

- **General Tab**
  - f\config.sys

Overview - Features
(continued)

- Security Tab
  - $_f$ \config.sys
  - $_f$ \etc\trusers
  - $_f$ \etc\rhosts
  - $_f$ \etc\tftpauth

- Servers Tab
  - $_f$ \etc\tcpos2.ini

- Socks Tab
  - $_f$ \etc\socks.env
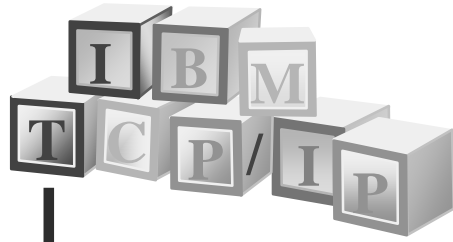 - $_f$ \etc\socks.cfg

- Printing Tab
  - $_f$ \config.sys
  - $_f$ \os2\os2.ini
  - $_f$ \os2\os2sys.ini

- Mail Tab
  - $_f$ \etc\tcpos2.ini
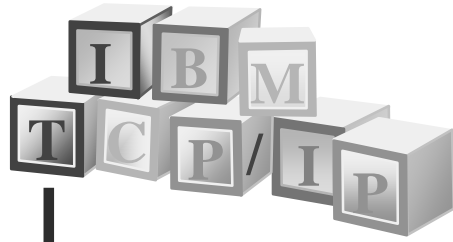 - $_f$ \etc*\mailstor directory moved

- Sendmail Tab
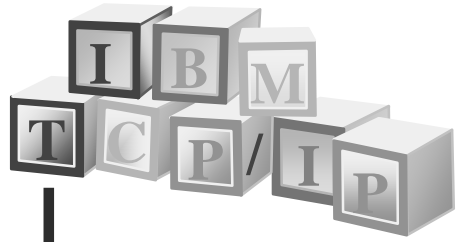 - *ƒ* \etc\sendmail.cf
  - *ƒ* \etc\sendmail.uml
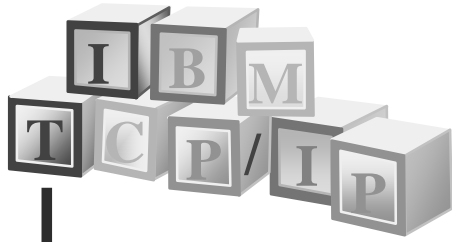 - *ƒ* \etc\tcpos2.ini

Features new with Merlin

- SOCKS Tab
  - ƒ 3 pages
    - –page 1 writes configuration data to socks.env
    - –pages 2 & 3 write configuration data to socks.cfg
- Variable subnet routing
  - ƒ one field added to Routing page
    - –Subnet mask can be entered for all routes **except** default route

Limitations Dependencies

- must have a dll present in order for tab to appear
- must have **all** corresponding help (\tcpip\help\cnb*.hlp) files present for each dll (\tcpip\dll\cnb*.dll) in order for **any** help to work

- The following executable configuration files are installed:
  - ƒ tcpcfg.exe
  - ƒ cnbdns.dll
  - ƒ cnbgen.dll
  - ƒ cnbiak.dll
  - ƒ cnbprt.dll
  - ƒ cnbserv.dll
  - ƒ cnbsmail.dll
  - ƒ cnbsocks.dll
  - ƒ cnbstk.dll
- ...along with the following help files:
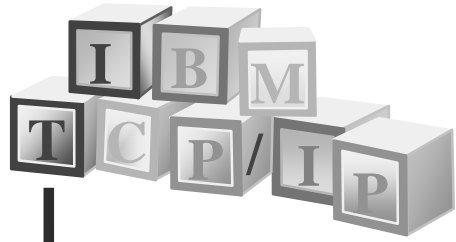 - ƒ tcpipcfg.hlp
  - ƒ cnbdns.hlp
  - ƒ cnbgen.hlp
  - ƒ cnbiak.hlp
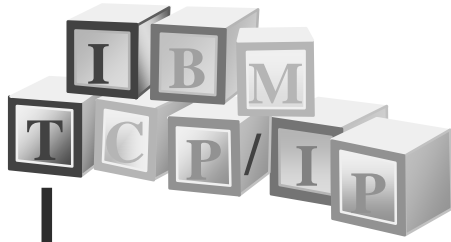 - ƒ cnbprt.hlp
  - ƒ cnbserv.hlp
  - ƒ cnbsmail.hlp
  - ƒ chbsocks.hlp
  - ƒ chbstk.hlp

- Installation program places:
  - ƒ tcpcfg.exe in \tcpip\bin
  - ƒ all cnb*.dll in \tcpip\dll
  - ƒ all cnb*.hlp in \tcpip\help
  - ƒ tcpipcfg.hlp in \tcpip\help
- tcpcfg.exe must be in a directory specified in the PATH= statement in CONFIG.SYS
- cnb*.dll files must be in a directory specified in the LIBPATH= statement in CONFIG.SYS
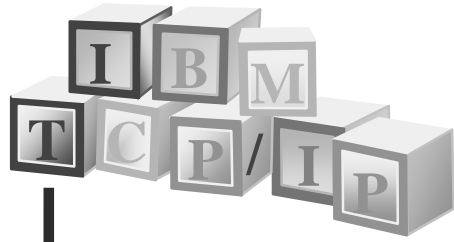- cnb*.hlp files must be in a directory specified in the HELP= statement in CONFIG.SYS

Invocation & Startup

- To start the configuration notebook:
  - ƒ click on the TCP/IP Configuration (LAN) icon located in the Internet (LAN) folder
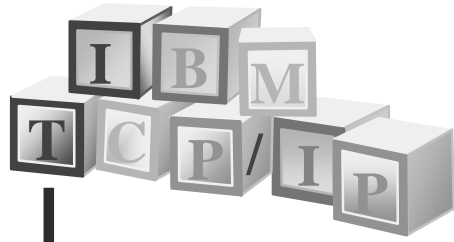 - ƒ type tcpcfg on an OS/2 command line (window or fullscreen)

Error Messages, Codes & Logs

- all error/informational messages are displayed in popup boxes
  - ƒmessages extracted from country's message files, e.g.:
    - –enus\cnb*.msg
    - –dede\cnb*.msg
    - –etc...
  - ƒsome error checking done at the entry field level
  - ƒsome error checking done at the page level
  - ƒsome error checking done when program is closed
  - ƒaction to take
- Error log generated when the configuration notebook is started with -d option
  - ƒtcpcfg -d
  - ƒgenerally stated from the command line as opposed to from the icon
  - ƒlog is generated in the directory where tcpcfg was started

Common User Problems

- Help not available
  - *ƒ* each *.dll **must** have an accompanying *.hlp file
- TABS missing from config notebook
  - *ƒ* dll is missing/corrupted
- notebook will not start
  - *ƒ* probably due to backlevel tcpcfg.exe
    - –2.0 CSD placed on top of Merlin??
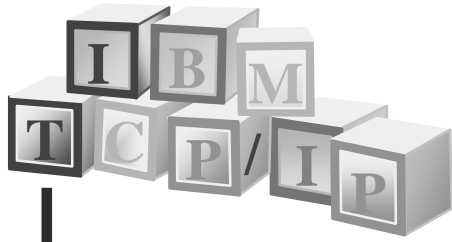
Debugging & Troubleshooting

- A log file of configuration transactions can be created by invoking tcpcfg with the -d option, e.g.:
  - ƒ tcpcfg -d
  - ƒ the file (tcpcfg.log) will be created and placed in the directory from which tcpcfg was started.
- Debugging info:
  - ƒ depending on what type of problem the user is having, any of the files listed under "Features" could be useful.

Source Overview

- All source code in CMVC
  - *f* family: wstcp
  - *f* release: os2apps32
  - *f* components:

    - os2tcpcfg:
      : driver (tcpcfg.exe) which starts
                     the notebook

    - os2cnbdns
      : Hostnames Tab

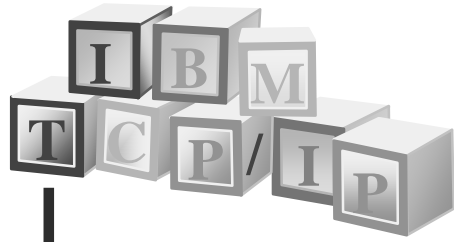   - os2cnbgen
      : Autostart & General Tabs

    - os2cnbiak
      : Servers Tab

    - os2cnbmail
      : Mail Tab

    - os2cnbprt
      : Printing Tab

–os2cnbserv

: Security Tab

–os2cnbsmail

: Sendmail Tab

–os2cnbstk

: Network & Routing Tabs

–os2cnbsocks

: Socks Tab